

ENVIRONMENTAL QUESTIONNAIRE

I. BACKGROUND

The Department of Energy's (DOE) National Environmental Policy Act (NEPA) Implementing Procedures (10 CFR 1021) require careful consideration of the potential environmental consequences of all proposed actions during the early planning stages. DOE must determine at the earliest possible time whether such actions require either an Environmental Assessment or an Environmental Impact Statement, or whether they qualify for Categorical Exclusion. To comply with these requirements, an Environmental Questionnaire must be completed for each proposed action to provide DOE with the information necessary to determine the appropriate level of NEPA review.

II. INSTRUCTIONS

Separate copies of this Environmental Questionnaire should be completed by the principal offeror and each proposed subcontractor. In addition, if the proposed project includes activities at different locations, an independent questionnaire should be prepared for each location. Supporting information can be provided as attachments.

In completing this questionnaire, the proposer is requested to provide specific quantities regarding air emissions, wastewater discharges, solid wastes, etc., to facilitate the necessary review. In addition, the proposer should identify the exact location of the project and specifically describe the activities that would occur at that location.

To expedite completion of this questionnaire, diskette copies in WordPerfect 6.1 are available upon request. Questions regarding the type of information requested or the approach to preparing responses should be referred to Lloyd Lorenzi, U.S. Department of Energy, National Energy Technology Laboratory, by phone (412) 892-6159, fax (412) 892-6127, or E-mail (lorenzi@netl.doe.gov).

III. QUESTIONNAIRE

A. PROJECT SUMMARY

1. Solicitation Number:
2. Proposer & all Proposed Subcontractors:
3. Principal Investigator:
Telephone Number:
4. Project Title:
5. Duration:
6. Location (city/township, county, state):
7. Indicate the type or scale of project:

a. <input checked="" type="checkbox"/> Computer Modeling	b. <input type="checkbox"/> Library/Literature Search
c. <input checked="" type="checkbox"/> Paper Study	d. <input type="checkbox"/> Workshop/Conference
e. <input checked="" type="checkbox"/> Laboratory (Batch) Research	f. <input type="checkbox"/> Bench-scale Research
g. <input checked="" type="checkbox"/> Pilot- or Proof-of-Concept-Scale Research	h. <input type="checkbox"/> Pilot Plant Construction/Operation
i. <input checked="" type="checkbox"/> Full-scale Demonstration	j. <input type="checkbox"/> Other (please describe):

If either item a, b, c, or d was selected for Question A.7, proceed to Section IV (CERTIFICATION BY PROPOSER); submittal of the intervening parts of this questionnaire is not required.

However, if either item e, f, g, h, i or j was selected, continue with Question A.8.

8. Indicate the size of the proposed project and the primary material processed (e.g., 200 tph of coal).

_____	tph (of _____)	_____	MM Btu/hr
_____	scfm (of _____)	_____	MW <input type="checkbox"/> electric <input type="checkbox"/> thermal
_____	acfm (of _____)	_____	Other:

- 9a. Summarize the proposed work. List all activities or tasks planned at the location covered by this Environmental Questionnaire.

- 9b. Characterize the work site at this location (check all that apply).

☒ Existing Building (indoors) ☐ Developed site ☐ Undeveloped site

10. List all other locations where work would be performed. (**Note: Submit a separate Environmental Questionnaire for each location.**)

11. Describe the objectives of the proposed project.

12. Identify the planned number of tests, the frequency of testing (e.g., tests per week), and the duration of tests by type (e.g., laboratory tests, pilot unit runs, etc.).

13. Identify all materials that would be used and produced by the project (materials can be grouped by category) and estimate their total quantities over the entire duration of the proposed project.

Materials Used (total quantity)		Materials Produced (total quantity)	
<input type="checkbox"/>	coal (_____)	<input type="checkbox"/>	wastewater (_____)
<input type="checkbox"/>	natural gas (_____)	<input type="checkbox"/>	air emissions (_____)
<input type="checkbox"/>	oil (_____)	<input type="checkbox"/>	solid waste (_____)
<input type="checkbox"/>	electricity (_____)	<input type="checkbox"/>	hazardous waste (_____)
<input type="checkbox"/>	water (_____)	<input type="checkbox"/>	salable by-
<input type="checkbox"/>	air (_____)		list and note
<input type="checkbox"/>	organic solvents (_____)		
<input type="checkbox"/>	others -- list and note quantity:	<input type="checkbox"/>	others -- list and note quantity:
<input type="checkbox"/>	None	<input type="checkbox"/>	None

B. PROPOSED PROJECT AND ITS ALTERNATIVES

1. List all alternative approaches considered to achieve the objectives described in A.11 and discuss the anticipated environmental effects of each. (Place the selected approach at the top of the list.)
2. Identify the environmental consequences of not implementing this project (e.g., emission increase).

C. PROJECT LOCATION

1. Provide a brief description of the project location (physical location, surrounding area, adjacent structures).
2. Attach a site plan or topographic map of the area that would be affected by the project and highlight (or otherwise identify) the specific location where the project would be performed.

D. ENVIRONMENTAL IMPACTS

This section is designed to obtain information for objectively assessing the environmental impacts of a proposed project. NEPA procedures require evaluations of all possible effects (including: land use, energy requirements, natural or depletable resource use, historic and cultural resources, and pollutants) from proposed projects on the environment. Answer the following questions as completely as possible. Also, for "yes" or "no" questions, answer "yes" if there would be any effect, or if there may be an effect. (Failure to answer the questions completely could produce delays in project awards.)

1. Land Use

- a. Identify the location of the proposed project (i.e., city, county, state).
- b. Identify the total size of the facility and the portion would be used for the proposed project.
- c. Characterize present land use where the proposed project would be located.

- | | |
|--------------------------------------|--|
| <input type="checkbox"/> Urban | <input type="checkbox"/> Industrial |
| <input type="checkbox"/> Commercial | <input type="checkbox"/> Agricultural |
| <input type="checkbox"/> Suburban | <input type="checkbox"/> Rural |
| <input type="checkbox"/> Residential | <input type="checkbox"/> Research Facility |
| <input type="checkbox"/> Forest | <input type="checkbox"/> University Campus |
| <input type="checkbox"/> Other: | |

- d. Describe how land use would be affected by planned construction activities.
☐ No construction would be anticipated for this project.

e. Describe how land use would be affected by operational activities associated with the proposed project.

f. Describe any plans to reclaim and/or revegetate areas that would be affected by the proposed project.

☐ No land areas would be affected ☐ None

g. Would changes resulting from the proposed project affect future uses of the site or surrounding areas?

☐ No ☐ Yes (describe)

h. Would the proposed project affect any unique or unusual landforms (e.g., cliffs, waterfalls, etc.)?

☐ No ☐ Yes (describe)

i. Would the proposed project affect existing or future recreational opportunities in the area?

☐ No ☐ Yes (describe)

j. Would the proposed project be located in or near a national park or wilderness area?

☐ No ☐ Yes (describe)

If the project would involve only laboratory or bench-scale research and be conducted within an existing building, proceed to Part D.8 (Atmospheric Conditions/Air Quality). If the project would be larger than bench-scale, continue with Part D.2.

2. Construction Activities and/or Operation

a. Describe the topography at the project site, including any significant landforms, etc.

b. Identify any transmission lines and/or pipelines that traverse the proposed site and clearly mark them on the site plan or topographic map.

☐ None

c. Would the proposed project require the construction of settling ponds?

☐ No ☐ Yes (describe, identify location, and estimate surface area disturbed)

d. Would the proposed project affect any existing body of water?

☐ No ☐ Yes (describe)

e. Would the proposed project be located in or impact a floodplain?

☐ No ☐ Yes (describe)

- f. Would the proposed project be located on (or near) or impact wetlands?
☐ No ☐ Yes (describe)
- g. Would the proposed project be likely to cause erosion?
☐ No ☐ Yes (describe)
- h. Would any wetlands be impacted by the discharge of wastewater from project activities?
☐ No ☐ Yes (describe)
- i. Would any construction activities planned under the proposed project result in stream diversion?
☐ No planned construction ☐ No ☐ Yes (describe)

3. Geological/Soil Conditions

- a. Describe any instability (e.g., subsidence) in the topography near the proposed project.
- b. Is there faulting in the vicinity of the proposed project area?
☐ No ☐ Yes (describe)
- c. Describe the soil in the vicinity of the proposed project in terms of productivity, presence of unique species, and susceptibility to erosion.
- d. Would any construction activities planned under the proposed project result in subsidence or changes in soil permeability/filtration?
☐ No planned construction ☐ No ☐ Yes (describe)

4. Vegetation and Wildlife Resources

- a. Describe the indigenous flora and fauna in the vicinity of the proposed project.
- b. Identify any state- or Federal-listed endangered or threatened species in the vicinity of the proposed project.
☐ None
- c. Would any threatened or endangered species or their habitat be affected by the proposed project?
☐ No ☐ Yes (describe)

- d. Describe any impacts that construction would have on sensitive or unique habitats.
☐ No planned construction ☐ No habitats ☐ None (discuss) ☐ Impact (describe)
- e. Would any species or subspecies, not indigenous to the area, be introduced as a result of the project (e.g., introducing a new bacterial strain, as in microbial desulfurization projects)?
☐ No ☐ Yes (describe)
- f. Would any migratory corridors be impacted or disrupted by the proposed project?
☐ No ☐ Yes (describe)
- g. What regulatory authority maintains cognizance over indigenous wildlife species?

5. Socioeconomic and Infrastructure Conditions

- a. What is the population in the vicinity of the proposed project and in communities near the project site?
- b. Describe employment and labor mix in the vicinity of the proposed project.
- c. Would changes (increases/decreases) in regional labor requirements be created by the proposed project?
☐ No ☐ Yes (describe)
- d. Would the proposed project alter present traffic patterns?
☐ No ☐ Yes (describe)
- e. Would the proposed project require new transportation access (roads, rail, etc.)?
☐ No ☐ Yes (describe)
- f. Would the proposed project create an increase in local energy usage?
☐ No ☐ Yes (describe)
- g. Would the proposed project increase local energy efficiency?
☐ No ☐ Yes (describe)
- h. Would the proposed project significantly impact local fuel or energy supply?
☐ No ☐ Yes (describe)

- i. Would any new transmission lines be required?
☐ No ☐ Yes (describe location, voltage, and length of line)

6. Historical/Cultural Resources

- a. Describe any historical or cultural places in the vicinity of the proposed project; note any sites included on the National Register of Historic Places.
☐ None ☐ The following historical/cultural places are located in the project area:

- b. Are there any known archeological sites in the vicinity of the proposed project?
☐ No ☐ Yes (describe)

- c. Would construction or operational activities planned under the proposed project disturb any historical or cultural sites?
☐ No planned construction ☐ No historic sites ☐ No impact (discuss) ☐ Yes (describe)

- d. Has the State Historic Preservation Office been contacted with regard to this project?
☐ No ☐ Yes (describe)

7. Visual Resources

- a. Describe any scenic vistas or aesthetic landscaping in the vicinity of the proposed project?
☐ None ☐ The following visual resources exist in the project area:

- b. Would the proposed project interfere with visual resources (e.g., eliminate scenic views) or alter the present landscape?
☐ No ☐ Yes (describe)

- c. Would any facilities constructed under the proposed project contrast with the present landscape?
☐ No construction planned ☐ No ☐ Yes (describe)

For all proposed projects involving laboratory, bench-scale, or larger research and development activities, respond to the following questions.

8. Atmospheric Conditions/Air Quality

- a. Describe the local climate.

- b. Identify air quality conditions in the immediate vicinity of the proposed project with regard to attainment of National Ambient Air Quality Standards. (This information should be available from the county environmental agency.)

	<u>Attainment</u>	<u>Non-Attainment</u>
O ₃	<input type="checkbox"/>	<input type="checkbox"/>
SO _x	<input type="checkbox"/>	<input type="checkbox"/>
PM ₁₀	<input type="checkbox"/>	<input type="checkbox"/>
CO	<input type="checkbox"/>	<input type="checkbox"/>
NO ₂	<input type="checkbox"/>	<input type="checkbox"/>
Lead	<input type="checkbox"/>	<input type="checkbox"/>

- c. Would the proposed project be in compliance with the National Emissions Standards for Hazardous Air Pollutants?
☐ No (explain) ☐ Yes

- d. Would the proposed project be classified as either a New Source or a major modification to an existing source?
☐ No ☐ Yes (describe)

- e. Would the proposed project be in compliance with the New Source Performance Standards?
☐ Not applicable ☐ No (explain) ☐ Yes

- f. Would the proposed project be subject to prevention of signification determination review?
☐ Not applicable ☐ No (explain) ☐ Yes (describe)

- g. What authority regulates air quality in the project area (identify Federal, state, and local authorities)?

- h. Identify the contact person, address, and telephone number for each authority.

- i. When were these authorities contacted regarding the proposed project (if necessary)? Include results of discussions.
☐ Not contacted

- j. How does each regulator (authority) define a major source (e.g., greater than 100 ton/year; thermal input of 250 MMBtu/hr)?

- k. Would any types of emission control or particulate collection devices be used?
☐ No ☐ Yes (describe, including collection efficiencies)

- l. If no control devices are used, how would emissions be vented?

- m. What types of air emissions, including fugitive emissions, would be anticipated from the proposed project, and what would be the total quantity and maximum annual rate of emissions over the duration of the project?

<input type="checkbox"/> None		
	(Maximum per year)	(Total for project)
<input type="checkbox"/> SO _x	_____	_____
<input type="checkbox"/> NO _x	_____	_____
<input type="checkbox"/> PM ₁₀	_____	_____
<input type="checkbox"/> CO	_____	_____
<input type="checkbox"/> Lead	_____	_____
<input type="checkbox"/> H ₂ S	_____	_____
<input type="checkbox"/> organic solvent vapors or other volatile organic compounds -- list		
<input type="checkbox"/> hazardous air pollutants -- list		
<input type="checkbox"/> other -- list		

- n. Would the proposed project reduce the amount of air emissions in the area?

☐ No ☐ Yes (describe)

- o. Identify Federal, state, and local air quality regulations that govern emissions in the project area.

9. Hydrologic Conditions/Water Quality

- a. What is the closest body of water to the proposed project area and what is its distance from the project site? Indicate on the site plan, if provided.

- b. What sources would supply potable and process water for the proposed project? Identify quantities consumed and uses. Identify the names of municipal or other water systems that would be used.

- c. Quantify the total amount of wastewater that would be generated by the proposed project.

<input type="checkbox"/>	None	
<input type="checkbox"/>	non-contact cooling water	(gallons)
<input type="checkbox"/>	process water	(gallons)
<input type="checkbox"/>	sanitary and/or grey water	(gallons)
<input type="checkbox"/>	other -- describe	(gallons)

- d. What would be the components of each type of wastewater (e.g., coal fines)?

- e. Identify the local treatment facility that would receive wastewater from the proposed project.
☐ No discharges to local treatment facility.
- f. Describe how wastewater would be collected and treated.
- g. What Federal, state, and local authorities regulate water quality in the proposed project area?
- h. Identify the contact person, address, and telephone number for each authority.
- i. When were these authorities contacted regarding the proposed project (if necessary)? Include results of discussions.
☐ Not contacted
- j. Would any run-off or leachates be produced from storage piles or waste disposal sites?
☐ No ☐ Yes (describe sources, nature of flow, and collection techniques)
- k. Identify Federal, state, and local regulations that govern water effluents/water quality in the project area.
- l. Where would wastewater effluents from the proposed project be discharged?
- m. Would the proposed project be permitted to discharge effluents into an existing body of water?
☐ No ☐ Yes (describe water use and effluent impact)
- n. Would a new or modified National Pollutant Discharge Elimination System (NPDES) permit be required?
☐ No ☐ Yes (describe)
- o. Would the proposed project increase or decrease the surface area of an existing body of water?
☐ No ☐ Yes (describe)
- p. Would the proposed project adversely affect the quality or movement of groundwater?
☐ No ☐ Yes (describe)

10. Solid and Hazardous Wastes

- a. Describe in detail and provide the total quantity of all nonhazardous wastes that would be generated from the project. Solid wastes are defined in RCRA as any solid, liquid, semi-solid, or contained gaseous material that is discarded, has served its intended purpose, or is a manufacturing or mining by-product (40 CFR 260, Appendix I).

	<u>Quantity</u>
<input type="checkbox"/> None	
<input type="checkbox"/> municipal solid waste, i.e., paper, plastic, etc.	()
<input type="checkbox"/> coal or coal by-products	()
<input type="checkbox"/> other -- identify	()
_____	()
_____	()

- b. Describe in detail and provide the total quantity of all hazardous wastes (40 CFR 261.3) that would be generated, used, or stored under this project.

☐ None ☐ The following hazardous wastes would be generated, used, or stored:

- c. How and where would solid waste disposal be accomplished?

☐ On-site (identify and describe location) ☐ Off-site (identify location and describe facility and treatment)

- d. How would wastes for disposal be transported?

- e. How many trips would be required for landfill disposal?

☐ None ☐ Number of trips:

- f. What volume of the landfill would the solid waste occupy?

☐ None ☐ Volume cubic feet

- g. What Federal, State, and local waste management authorities would have permit authority for the landfill?

- h. Identify the contact person, address, and telephone number for each authority.

- i. When were these authorities contacted regarding the proposed project (if necessary)? Include results of discussions.

☐ Not contacted

- j. How would hazardous or toxic products be collected and stored?

- k. If hazardous/toxic solid wastes are subject to land disposal restrictions, how would collection, treatment, and disposal of the wastes be accomplished?
- ☐ Not subject to RCRA land disposal restrictions. ☐ Subject to RCRA land disposal restrictions (explain):
- l. If hazardous wastes would require off-site disposal, have arrangements been made with a certified TSD (Treatment, Storage, and Disposal) facility?
- ☐ Not required ☐ Arrangements not yet made ☐ Arrangements made with a certified TSD facility (identify):
- m. How would hazardous waste(s) be transported?
- ☐ No hazardous wastes would be generated
- n. What treatment/storage/disposal methods would be used for hazardous wastes?
- ☐ No hazardous wastes would be generated ☐ Unknown ☐ Methods that would be used (describe):

11. Health/Safety Factors

- a. Identify any hazardous or toxic substances that would be used in the proposed project.
- ☐ None ☐ Hazardous or toxic substances that would be used (identify):
- b. What would be the likely impacts of these substances on human health and the environment?
- c. Would there be any potential for workers to be exposed to toxic/hazardous chemicals or wastes?
- ☐ No ☐ Yes (describe)
- d. Would there be any potential for exposure to extreme temperatures?
- ☐ No ☐ Yes (describe)
- e. Would there be any special physical hazards associated with the project?
- ☐ No ☐ Yes (describe)
- f. Would personal protective equipment or clothing be required?
- ☐ No ☐ Yes (describe)
- g. Does a worker safety program exist at the location of the proposed project?
- ☐ No ☐ Yes (describe)

h. Would safety training be necessary for any laboratory, equipment, or processes involved with the project?
☐ No ☐ Yes (describe)

i. Describe any increases in ambient noise levels from construction and operational activities.
☐ None ☐ Increase in ambient noise level (describe)

j. Would project construction result in the removal of natural barriers that act as noise screens?
☐ No construction planned ☐ No ☐ Yes (describe)

k. Identify the highest expected highest decibel level at the closest point of public access.

l. Identify the highest expected decibel level in the work area.

m. Would hearing protection be required for workers?
☐ No ☐ Yes (describe)

12. Environmental Restoration and/or Waste Management

a. Would the proposed project include CERCLA removals or similar actions under RCRA or other authorities, meeting CERCLA cost/time limits?
☐ No ☐ Yes (describe)

b. Would the proposed project include siting, construction, and operation of temporary pilot-scale waste collection and treatment facilities or pilot-scale waste stabilization and containment facilities?
☐ No ☐ Yes (describe)

c. Would the proposed project involve improvements to environmental monitoring and control systems of an existing structure or building?
☐ No ☐ Yes (describe)

d. Would the proposed project involve siting, construction, operation, and decommissioning of a facility for storing packaged hazardous waste for 90 days or less?
☐ No ☐ Yes (describe)

E. REGULATORY COMPLIANCE

1. For the following laws, describe any new or modified permits, manifests, contacts, etc., that would be required for the proposed project:

a. Resource Conservation and Recovery Act (RCRA):
☐ None ☐ Required (describe)

b. Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):
☐ None ☐ Required (describe)

c. Toxic Substance Control Act (TSCA):
☐ None ☐ Required (describe)

d. Water Pollution Control Act (WPCA):
☐ None ☐ Required (describe)

e. Clean Air Act (CAA):
☐ None ☐ Required (describe)

f. Endangered Species Act (ESA):
☐ None ☐ Required (describe)

g. Floodplains and Wetlands Regulations:
☐ None ☐ Required (describe)

h. Fish and Wildlife Coordination Act (FWCA):
☐ None ☐ Required (describe)

i. Farmland Protection Policy Act (FPPA):
☐ None ☐ Required (describe)

j. National Historic Preservation Act (NHPA):
☐ None ☐ Required (describe)

k. Coastal Zone Management Act (CZMA):
☐ None ☐ Required (describe)

l. American Indian Religions Freedom Act (AIRFA):
☐ None ☐ Required (describe)

m. Wild and Scenic Rivers Act (WSRA):
☐ None ☐ Required (describe)

2. Identify any other environmental laws and regulations (Federal, state, and local) for which compliance would be necessary for this project, and describe the permits, manifests, and contacts that would be required.

F. DESCRIBE ANY ISSUES THAT WOULD GENERATE PUBLIC CONTROVERSY REGARDING THE PROPOSED PROJECT.
☐ None

G. WOULD THE PROPOSED PROJECT PRODUCE ADDITIONAL DEVELOPMENT, OR ARE OTHER MAJOR DEVELOPMENTS PLANNED OR UNDERWAY, IN THE PROJECT AREA?
☐ No ☐ Yes (describe)

H. SUMMARIZE THE SIGNIFICANT IMPACTS THAT WOULD RESULT FROM THE PROPOSED PROJECT.
☐ None (provide supporting detail) ☐ Significant impacts (describe)

IV. CERTIFICATION BY PROPOSER

I hereby certify that the information provided herein is current, accurate, and complete as of the date shown immediately below.

DATE: ____/____/____
 month day year

SIGNATURE: _

TYPED NAME: _

TITLE: _

ORGANIZATION: _

V. REVIEW AND APPROVAL BY DOE

I hereby certify that I have reviewed the information provided in this questionnaire, have determined that all questions have been appropriately answered, and judge the responses to be consistent with the efforts proposed. Based on the information in the questionnaire, I conclude the following (check the appropriate box):

- ☐ The proposed action falls under one or more of the categorical exclusions (CXs) listed in Appendix A or B of Subpart D of the DOE NEPA Implementing Procedures and would not (1) violate applicable ES&H requirements, (2) require siting of waste TSD or recovery facilities, (3) disturb hazardous substances (excluding naturally occurring petroleum and natural gas), thus producing uncontrolled or unpermitted releases, and (4) adversely affect environmentally sensitive resources.

Additionally, the proposed action (1) would not present any extraordinary circumstances such that the action might have a significant impact upon the human environment, (2) is not connected to other actions with potentially significant impacts, and (3) is not related to other actions with cumulatively significant impacts.

Based on the Environmental Questionnaire and these conclusions, Categorical Exclusion of the proposed action would be appropriate.

- ☐ The proposed action does not qualify as a CX as identified in Subpart D of DOE's NEPA Implementing Procedures; therefore, the proposed action may require further documentation in the form of an Environmental Assessment or Environmental Impact Statement.

Project Manager: _____ Date: ____

**NETL CATEGORICAL EXCLUSION - - APPENDIX A OR B OF SUBPART D
DOE NEPA IMPLEMENTING PROCEDURES; 10 CFR PART 1021**

Action or Project No.
Title:
Performing Organization:

FY:
Performance Period:
Location:

THE PROPOSED ACTION FALLS WITHIN THE FOLLOWING CLASS OF ACTIONS (CHECK ONE OR MORE):

General Administration/Management

- ☐ A1 - Routine business actions
- ☐ A2 - Administrative contract amendments
- ☐ A4 - Interpretations/rulings for existing regulations
- ☐ A5 - Regulatory interpretations without environmental effect
- ☐ A6 - Procedural rulemakings
- ☐ A7 - Transfer of property, use unchanged
- ☐ A8 - Award of technical support/M&O/personal service contracts
- ☐ A9 - Info gathering, analysis, documentation, dissemination & training
- ☐ A10 - Reports on non-DOE legislation
- ☐ A11 - Technical advice and planning assistance
- ☐ A12 - Emergency Preparedness planning
- ☐ A13 - Procedural Orders, Notices, and Guidelines
- ☐ A14 - Approval of technical exchange arrangements
- ☐ A15 - International umbrella agreements for energy R&D

Facility Operations

- ☐ B1.2 - Training exercises and simulation
- ☐ B1.3 - Routine maintenance and custodial services
- ☐ B1.4 - Air conditioning installation for existing equipment
- ☐ B1.5 - Cooling water system improvements in existing structures
- ☐ B1.6 - Installation of runoff/spill control retention tanks & basins
- ☐ B1.7 - Communication system & data processing equipment acquisition, installation, operation, removal
- ☐ B1.8 - Screened water intake/outflow structure mods, within permits
- ☐ B1.11 - Fence installation, no adverse effect on wildlife or water flow
- ☐ B1.12 - Detonation/burning of failed/damaged high explosives or propellants in designated areas, within permits
- ☐ B1.13 - Onsite pathway or short access road construction/acquisition
- ☐ B1.15 - Support building or structure, non-waste storage, const/oper
- ☐ B1.16 - Removal of asbestos in accordance with regulations
- ☐ B1.17 - Removal of PCB items from aboveground structures
- ☐ B1.18 - Water supply well const/oper, from existing field, no degradation
- ☐ B1.21 - Noise abatement
- ☐ B1.22 - Building relocation to developed area/demolition/disposal
- ☐ B1.23 - Demolition/disposal of buildings, equipment & structures
- ☐ B1.24 - Transfer, disposition, or acquisition of uncontaminated structures or equipment, environmental quality maintained
- ☐ B1.25 - Transfer, disposition, or acquisition of uncontaminated land for habitat preservation/wildlife management
- ☐ B1.26 - Small (<250,000 GPD) WWT facility const/oper/decom
- ☐ B1.27 - Disconnection of utilities
- ☐ B1.28 - Placement of unused facilities in environmentally safe condition
- ☐ B1.29 - Small onsite const/demolition waste disposal facility const/oper/decom
- ☐ B1.30 - Transfer/transportation actions, quantities incidental to amounts at receiving site
- ☐ B1.31 - Relocation/operation of machinery or equipment, similar use
- ☐ B1.32 - Traffic flow adjustments, existing roads

Safety and Health

- ☐ B2.1 - Modifications to enhance workplace habitability
- ☐ B2.2 - Installation/improvement of building/equipment instrumentation
- ☐ B2.3 - Installation of equipment for personnel safety and health
- ☐ B2.5 - Facility safety and environmental improvements, replacement or upgrade of facility components, no change in useful life

General Research

- ☐ B3.1 - Site characterization/environmental monitoring
- ☐ B3.3 - Research related to conservation of fish and wildlife
- ☐ B3.4 - Transport packaging tests for radioactive/hazardous material
- ☐ B3.6 - R&D or pilot facility construction/operation/decommissioning
- ☐ B3.7 - New infill exploratory, experimental oil/gas/geothermal well construction/operation
- ☐ B3.8 - Outdoor ecological/environmental research in small area
- ☐ B3.9 - Certain CCT Demonstration activities, emissions unchanged
- ☐ B3.11 - Outdoor tests, experiments on materials and equipment components, no source, special nuclear, or byproduct materials

Conservation, Fossil, and Renewable Energy activities

- ☐ B5.1 - Actions to conserve energy, no indoor air quality degradation
- ☐ B5.2 - Modification to oil/gas/geothermal pumps and piping, no flow changes or air emission effects
- ☐ B5.3 - Modification (not expansion)/abandonment of oil storage access/brine injection/gas/geothermal wells; no site closure
- ☐ B5.4 - Repair/replacement of pipeline sections within maintenance provisions of a Section 404 permit
- ☐ B5.5 - Short crude oil/gas/steam/geothermal pipeline const/oper within a single industrial complex/existing right-of-way
- ☐ B5.6 - Oil spill cleanup operations

Environmental Restoration/Waste Minimization

- ☐ B6.1 - Cleanup actions: small-scale, short-term (<\$5MM & 5 years)
- ☐ B6.2 - Siting/construction/operation of temporary pilot-scale waste collection/treatment/stabilization/containment facilities
- ☐ B6.3 - Environmental control system improvements in existing structures, recycle/release/disposal within permitted facility
- ☐ B6.4 - Packaged hazardous waste storage facility const/oper/decom
- ☐ B6.5 - Const/oper/decom of onsite facility for characterizing/sorting or overpacking previously packaged waste (not high-level or spent nuclear fuel; no unpacking)
- ☐ B6.6 - Modification of facility for storing, packaging, or repacking waste (not high-level or spent nuclear fuel)
- ☐ B6.8 - Minor operational changes to minimize waste or reuse materials
- ☐ B6.9 - Small-scale, temporary measures to reduce contaminated GW migration
- ☐ B6.10 - Upgraded waste storage facility (<50,000 ft²) for existing waste const/oper/decom

Other

- ☐ Specify category:

This Action would not (1) violate applicable ES&H requirements, (2) require siting of waste TSD or recovery facilities, (3) disturb hazardous substances (excluding naturally occurring petroleum and natural gas), thus producing uncontrolled or unpermitted releases, and (4) adversely affect environmentally sensitive resources. Furthermore, this Action (1) would not present any extraordinary circumstances such that the action might have a significant impact upon the human environment, (2) is not connected to other actions with potentially significant impacts, and (3) is not related to other actions with cumulatively significant impacts. Therefore, the proposed Action may be categorically excluded from further review.

Initiator: _____

Date: _____

NEPA Compliance Officer: _____

Date: _____